

## Appendix A – Glossary of Terms

Term	Description
ADMS	Advanced Distribution Management System A software platform that enables the safe and efficient operation and optimization of the distribution grid, including functions such as automatic outage restoration.
APT	Area Planning Tool ComEd database of actual loads and 5-year projected future loads. APT receives actual load data for components monitored by SCADA through an automatic interface and calculates a weather-adjusted value. Utilized to view and analyze loads and component ratings to develop load forecasts and to identify overloaded components.
ATO	Automatic Throw Over Provide automatic selection of available utility or generator sources to maintain service continuity to connected loads.
BE	Beneficial Electrification A term for replacing direct fossil fuel use with electricity in a manner that is operationally, economically, and/or socially beneficial depending on the context.
BES	Bulk Electric System All Transmission Elements operated at 100 kV or higher and Real Power and Reactive Power resources connected at 100 kV or higher. This does not include facilities used in the local distribution of electric energy.
CAIDI	Customer Average Interruption Duration Index The average outage duration that any given customer would experience (SAIDI/SAIFI) and can be viewed as the average restoration time measured in minutes.
CAIFI	Customer Average Interruption Frequency Index The average number of interruptions for those customers who experience interruptions during the year. It is calculated by dividing the total annual number of customer interruptions by the total number of customers affected by interruptions. In determining the total number of customers affected, each customer is counted only once regardless of the number of customer interruptions that the customer may have experienced during the year.
CBD	Central Business District
CCVT	Capacitive Coupled Voltage Transformer A CCVT is a device used to convert high voltage into low voltage for metering, protection, and control of High Voltage systems.
CEATI	Centre for Energy Advancement through Technological Innovation Industry standards group.
CEGIS	ComEd Geographic Information System
CEMI	Customers Experiencing Multiple Interruptions Measurement of customers experiencing multiple interruptions.
CET	Consolidated Estimating Tool A New Business tool used to make various contracts between ComEd and a new customer. Utilized to learn new customer load and to obtain a copy of the Service Estimate Request.

Term	Description
CIMS	Customer Information and Management System ComEd's customer information and billing system.
DA ACI	Avoided Customer Interruptions due to Distribution Automation DA: A system comprising sensors, processors, information and communication networks, and switches, through which a utility can collect, automate, analyze, and optimize data to improve the operational efficiency of its distribution power system. ACI: Avoided customer interruptions
DER	Distributed Energy Resource DERs are devices deployed across the distribution grid, typically close to load and usually behind the meter, which can be used individually or in aggregate to provide value to the grid, individual customers, or both. Examples include rooftop photovoltaic solar panels, storage systems, a fleet of electric vehicles, energy efficiency, and demand management systems.
Derecho	A line of intense, widespread, and fast-moving windstorms and sometimes thunderstorms that moves across a great distance and is characterized by damaging winds.
DERMS	Distributed Energy Resource Management System A software platform used to manage a group of DER assets.
DGA	Dissolved Gas Analysis An examination of electrical transformer oil contaminants. Insulating materials within electrical equipment liberate gases as they slowly break down over time. The composition and distribution of these dissolved gases are indicators of the effects of deterioration, and the rate of gas generation indicates the severity.
DR	Demand Response A change in the power consumption of an electric utility customer to better match the demand for power with the supply.
EIMA	Energy Infrastructure Modernization Act (EIMA)
EPRI	Electric Power Research Institute An independent, nonprofit organization that conducts research, development, and demonstration projects for the benefit of the public in the United States and internationally.
EV	Electric Vehicle A vehicle using an electric motor.
EVSE	EV Supply Equipment Equipment that delivers electrical energy from an electricity source to charge plug-in electric vehicle batteries.
FEJA	Future Energy Jobs Act (FEJA)
FLISR	Fault Location, Isolation, and Service Restoration An automated solution that locates and isolates permanent faults and restores power to healthy portions of affected distribution lines or feeders.
Functionalization	Refers to the separation of delivery assets and functions between distribution and transmission and is governed by the Federal Energy Regulatory Commission ("FERC") "Seven Factor Test." The Seven Factor Test refers to seven indicators identified in FERC's Order No. 888, which determine what is local distribution (as opposed to transmission) and thus subject to State jurisdiction for most purposes.

Term	Description
GIS	Geographic Information System A software platform that provides the ability to capture and analyze spatial and geographic data.
HVD	High Voltage Distribution All circuits operated at 69KV and circuits and sections of circuits operated at 138 kV and higher that meet the seven indicators of local distribution.
IEEE	Institute of Electrical and Electronics Engineers The world's largest technical professional organization dedicated to advancing technology for the benefit of humanity.
IT	Information Technology Equipment and systems that enable the control and monitoring of the distribution grid.
ITN	Investment Tracking Number Number allocated to ComEd Capital or O&M projects.
LRP	Long Range Plan A rolling, 5-year, forward-looking plan that incorporates planned investments.
LTC	Load Tap Changer An apparatus for changing the connection to an electrical transformer from one tap to another to vary the turns ratio and hence control the output voltage under a varying load.
NATF	North American Transmission Forum A group of transmission owners and operators that formed after the 2003 Northeast blackout. Tasked with helping system operators identify and correct problems in the areas of human performance, operating experience, physical and cyber security, and continuous improvement techniques.
NERC CIP	North American Electric Reliability Corporation Critical Infrastructure Protection NERC: A nonprofit corporation formed by the electric utility industry to promote the reliability and adequacy of bulk power transmission in the electric utility systems of North America. CIP: A national program to ensure the security of vulnerable and interconnected infrastructures of the United States.
NWA	Non-Wires Alternatives Electric utility system investments and operating practices that can defer or replace the need for specific transmission and/or distribution projects, at lower total resource costs, by reliably reducing transmission congestion or distribution system constraints at times of maximum demand in specific grid areas.
O&M	Operations and Maintenance
OMS	Outage Management System A utility network management software application that models network topology for safe, efficient field operations related to outage restoration. These systems track, group, and display outages to manage service restoration activities safely and efficiently.
PMU	Phasor Measurement Units Device used on electric systems to improve operators' visibility. It measures a quantity called a phasor. A phasor tells the magnitude and phase angle for the AC voltage or current at a specific location on a power line. This

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	information can also be used to determine frequency and is useful for identifying and analyzing system conditions.
PV	Photovoltaic Equipment capable of producing electric current or voltage via electromagnetic radiation from visible light from the sun.
REACTS	Renewable Energy, Advanced Control, and Telemetry Systems ComEd program to design and build advancements to the utility communication and telemetry network.
Reliability	The measure of the continuity of electric service and the frequency and duration of service interruptions.
Resiliency	The ability to withstand and reduce the magnitude and/or duration of disruptive events, which includes the capability to anticipate, absorb, adapt to, and/or rapidly recover from such an event (e.g., major storms, heatwaves, etc.).
SAIDI	System Average Interruption Duration Index The average outage duration for each customer served. It is measured in minutes and is calculated by dividing the total duration of all customer interruptions by the total number of customers served.
SAIFI	System Average Interruption Frequency Index The average number of interruptions that a customer experienced. It is calculated by dividing the total number of customer interruptions by the total number of customers served.
SCADA	Supervisory Control and Data Acquisition A utility operational software application that enables the control and monitoring of system assets like breakers, reclosers, capacitor banks, etc.
T&D	Transmission and Distribution
URD cable	Underground Residential Development cable Specialty aluminum wire intended for use in residential construction and light to medium-duty commercial applications.
VO	Voltage Optimization Systematic, controlled reduction in the voltages received by an energy consumer to reduce energy use, power demand, and reactive power demand.
XLPE	Crosslinked Polyethylene power cable